

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference CML01134EP	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, Item 5 below.	
International application No. PCT/EP2004/051643	International filing date (day/month/year) 28/07/2004	(Earliest) Priority Date (day/month/year) 28/08/2003
Applicant MOTOROLA INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No

F. /EP2004/051643

A. CLASSIFICATION OF SUBJECT MATTER		
IPC 7	H04L1/06	H04L25/02 H04L27/26
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
IPC 7 H04L		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)		
EPO-Internal, WPI Data, PAJ		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/041635 A1 (MA JIANGLEI ET AL) 11 April 2002 (2002-04-11) page 2, paragraph 23 - paragraph 25 page 3, paragraph 31 - paragraph 38 page 3, paragraph 43 - page 4, paragraph 43 figures 1,6,7	1-5,9, 10,12-16
X	WO 02/45329 A (ERICSSON TELEFON AB L M) 6 June 2002 (2002-06-06) page 10, line 5 - line 15 page 13, line 24 - page 14, line 25 claim 1 ----- -/--	1-5,9, 10,12-16
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report
18 November 2004		24/11/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Horbach, C

INTERNATIONAL SEARCH REPORT

International Application No

P. EP2004/051643

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>MUQUET B ET AL: "OFDM with trailing zeros versus OFDM with cyclic prefix: links, comparisons and application to the HiperLAN/2 system"</p> <p>ICC 2000. 2000 IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS. CONFERENCE RECORD. NEW ORLEANS, LA, JUNE 18-22, 2000, IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS, NEW YORK, NY: IEEE, US, vol. 2 OF 3, 18 June 2000 (2000-06-18), pages 1049-1053, XP002231869</p> <p>ISBN: 0-7803-6284-5</p> <p>figures 3,4</p>	1-16
A	<p>DENEIRE L ET AL: "TRAINING SEQUENCE VERSUS CYCLIC PREFIX-A NEW LOOK ON SINGLE CARRIER COMMUNICATION"</p> <p>IEEE COMMUNICATIONS LETTERS, IEEE SERVICE CENTER, PISCATAWAY, US, US, vol. 5, no. 7, July 2001 (2001-07), pages 292-294, XP001103154</p> <p>ISSN: 1089-7798</p> <p>page 292, paragraph II - page 293, paragraph II</p>	1-16

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

F /EP2004/051643

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002041635 A1	11-04-2002	CA 2355433 A1	01-03-2002
		EP 1185048 A2	06-03-2002
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		EP 1185001 A2	06-03-2002
		US 2002122383 A1	05-09-2002
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